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What is claimed is:

1. A digital device for inputting data from the other specific digital device to a physical plug and outputting data from a physical plug to the other specific digital device by using a channel of a bus interface, which comprising:

configuration information including connection information between a channel of a bus interface and a physical plug, and priority information of channels of a bus interface judged from the aspect of each physical plug; and

channel selecting means selecting a channel with the highest priority among channels of a bus interface connected with the specific physical plug by referring to the configuration information.

2. A digital device according to claim 1, which comprising:

the configuration information further including priority information of physical plugs judged from the aspect of each channel of a bus interface; and

channels witching means, in case of the competition for the channels of the bus interface, switching the channel to a physical plug with the highest priority among physical plugs in competition by referring to the configuration information.

3. A digital device for controlling by a physical plug to output data from a physical plug to the other specific digital device by using a channel of a bus interface, wherein, in case of outputting data having the same type of format from a plural physical plug, the data output having the same type of format is to be controlled by a logical plug.

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4. A digital device according to either one of claim 1 to 3, wherein the data is synchronous stream one.

- 5 5. A digital device according to either one of claim 1 to 3, wherein the bus interface is compliant with the standard of IEEE 1394.
 - 6. A data input-output control method of a digital device for inputting data from the other specific digital device to a physical plug and outputting data from a physical plug to the other specific digital device by using a channel of a bus interface, which comprising a step of:

registering as configuration information at least connection information between a channel of a bus interface and a physical plug, and priority information of channels of a bus interface judged from the aspect of each physical plug; and

selecting a channel with the highest priority among channels of a bus interface connected with a specific physical plug by referring to the configuration information.

20 7. A data input-output control method of a digital device according to claim 6, which comprising a further step of:

registering as configuration information priority information of physical plugs judged from the aspect of each channel of a bus interface; and

in case of the competition for the channels of a bus interface, switching the channel to a physical plug with the highest priority among

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the physical plugs in competition by referring to the configuration information.

- 8. A data input-output control method of a digital device for controlling by a physical plug to output the data from a physical plug to the other specific digital device by using a channel of a bus interface, wherein, in case of outputting data having the same type of format from a plural physical plug, the data output having the same type of format is to be controlled by a logical plug.
 - 9. Configuration information for implementing a data inputoutput control function of a digital device for inputting data from the other specific digital device to a physical plug and outputting data from a physical plug to the other specific digital device by using a channel of a bus interface, which comprising at least connection information between a channel of a bus interface and a physical plug, and priority information of channels of a bus interface judged from the aspect of each physical plug.
- 20 10. Configuration information according to claim 9, which further comprising priority information of physical plugs judged from the aspect of each channel of a bus interface.
- 11. A data input-output control system for controlling to input and
 25 output data between a specific digital device and the other specific
 digital device connected through a bus interface, which comprising:

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configuration information including connection information between a channel of a bus interface and a physical plug, and priority information of channels of a bus interface judged from the aspect of each physical plug; and

channel selecting means selecting a channel with the highest priority among channels of a bus interface connected with the specific physical plug by referring to the configuration information.

12. A data input-output control system according to claim 11, which further comprising:

the configuration information including priority information of physical plugs judged from the aspect of each channel of a bus interface; and

channel switching means switching, in case of the competition for channels of a bus interface, the channel to a physical plug having the highest priority among physical plugs in competition by referring to the configuration information.

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